

REMARKS

Claim 1 has been cancelled and replaced by Claims 2-5. These claims are supported by the original claim.

An early action of the merits is respectfully requested.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE:

IN THE SPECIFICATION:

Please delete the current title and replace with the following:

--ADJUSTABLE JET DISPERSER FOR PRODUCING AQUEOUS TWO-
COMPONENT POLYURETHANE PAINT EMULSIONS--.

Please replace the Abstract on page 13 with the following new abstract:

--ADJUSTABLE JET DISPERSER FOR PRODUCING AQUEOUS TWO-
COMPONENT POLYURETHANE PAINT EMULSIONS

ABSTRACT OF THE DISCLOSURE

The invention relates to a process for the production of aqueous two-
component polyurethane lacquer emulsions, with variable throughput, and to the use
thereof as high-quality lacquers and coatings.--

A new abstract page is included herewith.

At page 1, line 3 insert the heading --BACKGROUND OF THE INVENTION--.

At page 4, line 23 insert the heading --SUMMARY OF THE INVENTION--.

At page 5, line 1 insert the heading --DETAILED DESCRIPTION OF THE
INVENTION--.

At the end of page 11, line 12, insert the heading --BRIEF DESCRIPTION OF
THE DRAWINGS-- and the following paragraphs:

--Figure 1 describes one embodiment of the invention and shows a cross-section
through a dispersing device according to the invention, with mixing nozzle connected
upstream.

Figure 2 describes one embodiment of the invention and shows a cross-section
through a variant of the dispersing device in Figure 1 with opposite rows of axially
displaced bores. It also shows a detailed drawing of the nozzle in Figure 2 (lateral view)
in order to illustrate the geometry of the nozzle.

Figure 3 describes one embodiment of the invention and shows a cross-section
through a variant of the dispersing device in Figure 1 with slots 16, 16' and it also shows
a detailed drawing of the nozzle in Figure 3 (lateral view) in order to illustrate the
geometry of the nozzle.

Figure 4 describes one embodiment of the invention and shows the scheme of a coating unit with several dispersing devices according to the invention.

Figure 5 describes one embodiment of the invention and shows a graph representing the average particle size as a function of the homogenizing pressure for various dispersing devices."

IN THE CLAIMS:

Claim 1 has been canceled.

The following new claims have been added:

- 2. A process for the production of an aqueous two-component polyurethane coating emulsion comprising pumping a mixture of at least one polyisocyanate and an aqueous binder dispersion comprising isocyanate-reactive groups under a pressure of from 1 to 30 MPa through an adjustable jet disperser.
3. The process of Claim 2 wherein the jet disperser has a variable throughput.
4. The process of Claim 2 wherein the jet disperser comprises nozzle bores or slots.
5. The process of Claim 4 wherein the bores or slots can be opened and closed.--